

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/189,415DATE: 03/10/2000
TIME: 15:42:36

Input Set: I189415.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Finlay, Brett B
2 Kenny, Brendan
3 DeVinney, Rebekah
4 Stein, Markus
5 <120> TITLE OF INVENTION: HOST RECEPTOR FOR PATHOGENIC BACTERIA
6 <130> FILE REFERENCE: 07422/013001
7 <140> CURRENT APPLICATION NUMBER: US/09/189,415
8 <141> CURRENT FILING DATE: 1998-11-10
9 <150> EARLIER APPLICATION NUMBER: 60/065,130
10 <151> EARLIER FILING DATE: 1997-11-12
11 <160> NUMBER OF SEQ ID NOS: 9
12 <170> SOFTWARE: PatentIn Ver. 2.0
13 <210> SEQ ID NO 1
14 <211> LENGTH: 1920
15 <212> TYPE: DNA
16 <213> ORGANISM: Escherichia coli
17 <400> SEQUENCE: 1
18 cggctgcata ccattacgtc atagtaatat aaaggaacgt gtcaaatttc taaataaaaag 60
19 gatatatgtt tgcctattgg taaccttggt aataatgtaa atggcaatca tttatccccc 120
20 cctgcgccgc cactaccttc acaaacagac ggccgcccac ggggaggaac tggcatcta 180
21 attagctcta caggagcatt agatctcg ttcattgttt ctcccttagaaattctatg 240
22 gctgattctg tcgattccag agatattcca ggacttccta caaacccatc gaggcttgct 300
23 gcagctacat ctgagacatg cttgcttggaa ggatttgaag ttctccatga taagggggcca 360
24 cttgatattc tcaatacgc aattggaccc tctgcatttc gtgttgaagt gcaggcagat 420
25 ggtactcatg ccgttattgg agaaaaaaaaat gttttggagg ttagcgttac attaagtct 480
26 caagaatggc gcagcttgca atctattgtat actgagggtt aaaaacagatt tgtttttacc 540
27 gggggacgtg cggttagtgg gcatcccgatg gtcactgtcg catcagatcg cgcggaaagct 600
28 cgtacaaaa tactggccaa attagacccca gacaatcatg gaggacgtca acccaaggac 660
29 gttgatacgc gttctgttgg ttttggcagc gtttgggaa tagatgttgc ctttgggtt 720
30 gaaacccata cttcaacaac aaattccac gtcgctcaat atccctaaattt ctgggtttct 780
31 gtcggcgcaaa ttgtctgg ttttagcgggaa ctggcgccaa ctggatttgc acaggcggtt 840
32 gctttgacac cggaaacccggaa tgatccata accaccgatc ctgatcaggc cgcaaatgt 900
33 gcagaaaatgc caacaaaaaaa tcaatgttacg caagaagcat tcaagaaccc ttggaaaccag 960
34 aaatgttacca tcgatgcgaa cggaaatgtt atccgtctg gggaaattttt agatgttattt 1020
35 gttgagcaaa tagcacaaca agctaaagag gctgggtgagg tggccagaca gcaggctgtt 1080
36 gaaagcaatg cacaggcgca gcagcgatat gaggatcgc atgcccacgc tcaggagggaa 1140
37 ttacagctt catcggttat tggttacggc ctcagcagtg cattgattgt tgctggggaa 1200
38 attgggtctg gtgttaacgc tgcgttccat agacgaaatc agccggcaga acagacaact 1260
39 actacaacaa cacatacggt agtgcagcaa cagaccggag ggataccccca gcacaagggt 1320
40 gcactgtatgc cacaagagcg aagacgttc tctgtatagac gtgattcgc ggggagtttt 1380
41 gcatcgacac actgggtcaga ttcctctagc gaagtggta atccatatgc tgaagttggg 1440
42 ggggctcgga atagtctatc ggctcatcg ccagaagac atatttatga tgaggtcgct 1500
43 gcagatcctg gttatagcgt tattcagaat ttttcaggaa gcggcccaat taccggaaagg 1560
44 ttaataggaa ctccaggaa aggtatccaa agtactttagt cgcttctggc aaacagcggc 1620

P.2

PAGE: 2

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/189,415DATE: 03/10/2000
TIME: 15:42:36

Input Set: I189415.RAW

45 ggattgcgtt taggtatggg aggattaacg agtggtggcg agacggcagt aagttctgta 1680
 46 aatgcccac caacgcaggg accagtagt ttcgttaaa tatatctgtg agtatttagt 1740
 47 tgaggttggg gtggggtggg gggcggttt actagcgtta atgttcaga gaacaacgtt 1800
 48 gcagcatggg taactcttga acttctgtta ttataatcaa ttaagagaaa ttataatgtc 1860
 49 atcaagatat gaactttat tagatagggt tgccggaaaaa attggtgtt gatctatttc 1920
 50 <210> SEQ ID NO 2
 51 <211> LENGTH: 549
 52 <212> TYPE: PRT
 53 <213> ORGANISM: Escherichia coli
 54 <400> SEQUENCE: 2
 Met Pro Ile Gly Asn Leu Gly Asn Asn Val Asn Gly Asn His Leu Ile
 1 5 10 15
 Pro Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Ala Arg Gly
 20 25 30
 Gly Thr Gly His Leu Ile Ser Ser Thr Gly Ala Leu Gly Ser Arg Ser
 35 40 45
 Leu Phe Ser Pro Leu Arg Asn Ser Met Ala Asp Ser Val Asp Ser Arg
 50 55 60
 Asp Ile Pro Gly Leu Pro Thr Asn Pro Ser Arg Leu Ala Ala Ala Thr
 65 70 75 80
 Ser Glu Thr Cys Leu Leu Gly Gly Phe Glu Val Leu His Asp Lys Gly
 85 90 95
 Pro Leu Asp Ile Leu Asn Thr Gln Ile Gly Pro Ser Ala Phe Arg Val
 100 105 110
 Glu Val Gln Ala Asp Gly Thr His Ala Ala Ile Gly Glu Lys Asn Gly
 115 120 125
 Leu Glu Val Ser Val Thr Leu Ser Pro Gln Glu Trp Ser Ser Leu Gln
 130 135 140
 Ser Ile Asp Thr Glu Gly Lys Asn Arg Phe Val Phe Thr Gly Arg
 145 150 155 160
 Gly Gly Ser Gly His Pro Met Val Thr Val Ala Ser Asp Ile Ala Glu
 165 170 175
 Ala Arg Thr Arg Ile Leu Ala Lys Leu Asp Pro Asp Asn His Gly Gly
 180 185 190
 Arg Gln Pro Lys Asp Val Asp Thr Arg Ser Val Gly Val Gly Ser Ala
 195 200 205
 Ser Gly Ile Asp Asp Gly Val Val Ser Glu Thr His Thr Ser Thr Thr
 210 215 220
 Asn Ser Ser Val Arg Ser Asp Pro Lys Phe Trp Val Ser Val Gly Ala
 225 230 235 240
 Ile Ala Ala Gly Leu Ala Gly Leu Ala Ala Thr Gly Ile Ala Gln Ala
 245 250 255
 Leu Ala Leu Thr Pro Glu Pro Asp Asp Pro Thr Thr Asp Pro Asp
 260 265 270
 Gln Ala Ala Asn Ala Ala Glu Ser Ala Thr Lys Asp Gln Leu Thr Gln
 275 280 285
 Glu Ala Phe Lys Asn Pro Glu Asn Gln Lys Val Asn Ile Asp Ala Asn
 290 295 300
 Gly Asn Ala Ile Pro Ser Gly Glu Leu Xaa Asp Asp Ile Val Glu Gln
 305 310 315 320

W-->

All item 10
 on Error summary
 sheet

PAGE: 3

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/189,415

DATE: 03/10/2000
 TIME: 15:42:36

Input Set: I189415.RAW

```

95 Ile Ala Gln Gln Ala Lys Glu Ala Gly Glu Val Ala Arg Gln Gln Ala
96 325 330 335
97 Val Glu Ser Asn Ala Gln Ala Gln Gln Arg Tyr Glu Asp Gln His Ala
98 340 345 350
99 Arg Arg Gln Glu Glu Leu Gln Leu Ser Ser Gly Ile Gly Tyr Gly Leu
100 355 360 365
101 Ser Ser Ala Leu Ile Val Ala Gly Gly Ile Gly Ala Gly Val Thr Thr
102 370 375 380
103 Ala Leu His Arg Arg Asn Gln Pro Ala Glu Gln Thr Thr Thr Thr
104 385 390 395 400
105 Thr His Thr Val Val Gln Gln Gln Thr Gly Gly Ile Pro Gln His Lys
106 405 410 415
107 Val Ala Leu Met Pro Gln Glu Arg Arg Arg Phe Ser Asp Arg Arg Asp
108 420 425 430
109 Ser Gln Gly Ser Val Ala Ser Thr His Trp Ser Asp Ser Ser Ser Glu
110 435 440 445
111 Val Val Asn Pro Tyr Ala Glu Val Gly Gly Ala Arg Asn Ser Leu Ser
112 450 455 460
113 Ala His Gln Pro Glu Glu His Ile Tyr Asp Glu Val Ala Ala Asp Pro
114 465 470 475 480
115 Gly Tyr Ser Val Ile Gln Asn Phe Ser Gly Ser Gly Pro Val Thr Gly
116 485 490 495
117 Arg Leu Ile Gly Thr Pro Gly Gln Gly Ile Gln Ser Thr Tyr Ala Leu
118 500 505 510
119 Leu Ala Asn Ser Gly Gly Leu Arg Leu Gly Met Gly Gly Leu Thr Ser
120 515 520 525
121 Gly Gly Glu Thr Ala Val Ser Ser Val Asn Ala Ala Pro Thr Pro Gly
122 530 535 540
123 Pro Val Arg Phe Val
124 545
125 <210> SEQ ID NO 3
126 <211> LENGTH: 1723
127 <212> TYPE: DNA
128 <213> ORGANISM: Escherichia coli
129 <400> SEQUENCE: 3
130 atgcctattg gtaaccttgg tcataatccc aatgtgaata attcaattcc tcctgcacct 60
131 ccattacctt cacaaccgaa cggcgcaggg gggcgtggtc agctcattaa ctctacgggg 120
132 ccgttgggat ctcgtgcgtt atttacgcct gtaaggaaatt ctatggctga ttctggcgac 180
133 aatcgtgcca gtgatgttcc tggacttcct gtaaatccga tgccgcctggc ggcgtctgag 240
134 ataacactga atgatggatt tgaagttctt catgatcatg gtccgcctga tactcttaac 300
135 aggccagattt gctcttcggt atttcgagtt gaaactcagg aagatggtaa acatattgtt 360
136 gtcggtcaga ggaatggtgt tgagacctct gtgtgtttaa gtgatcaaga gtacgctcgc 420
137 ttgcagtcca ttgatcctga aggttaaagac aaatttgat ttactggagg ccgtgggtgg 480
138 gctgggcattt ctatggcac cggtgcctca gatatcacgg aagccgcac aaggataactg 540
139 gagctgttag agccccaaagg gaccggggag tccaaagggtt ctggggagtc aaaaggcggtt 600
140 ggggagttga gggagtcataa tagcggcgc gaaaaacacca cagaaactca gacctaacc 660
141 tcaacttcca gccttcgttc agatcctaaa ctttgggttgg cgttggggac ttttgctaca 720
142 ggtctgatag ggttggcggc gacgggtatt gtacaggcgc ttgcattgac gccggagccg 780
143 gatagcccaa ccacgaccga ccctgatgca gctgcaagtg caactgaaac tgcgacaaga 840
144 gatcgtttaa cgaaaagaagc gttccagaac ccagataatc aaaaagttaa tatcgatgag 900

```

PAGE: 4

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/189,415DATE: 03/10/2000
TIME: 15:42:36

Input Set: I189415.RAW

145 ctcggaaatg cgattccgtc aggggtattg aaagatgatg ttgttgcga tatagaagag 960
 146 caggctaaag cagcaggcga agaggccaaa cagcaagcca ttgaaaataa tgctcaggcg 1020
 147 caaaaaaaaaat atgatgaaca acaagctaaa cgccaggagg agctgaaagt ttcatcgaaa 1080
 148 gctggctacg gtcttagtgg cgcattgatt ctgggtgggg gaattgggtg tgccgtcacc 1140
 149 gctgcgttc atcgaaaaaa tcagccgta gaacaaacaa caacaactac tactacaact 1200
 150 acaactacaa gcgcacgtac ggtagagaat aagcctgcaa ataatacacc tgcacagggc 1260
 151 aatgtagata cccctgggtc agaagatacc atggagagca gacgtagctc gatggcttagc 1320
 152 acctcgtcga cttctttga cacttccagc atagggaccg tgcagaatcc gtatgctgat 1380
 153 gttaaaacat cgctgcatga ttcgcagggtc cgacttcta attctaatac gtctgttcag 1440
 154 aatatgggaa atacagattc ttttttat agcaccattc aacatcctcc cccggataact 1500
 155 actgataacg gcgcacgggtt attagggaaat ccaagtgcgg ggattcaaaag cacttatgca 1560
 156 cgtctggcgc taagtgggtt attacgccat gacatgggag gattaacggg ggggagtaat 1620
 157 agcgctgtga atacttcgaa taacccacca gcgcgggat cccatcgaaa cgtctaaata 1680
 158 tatccataat cattttat agagggaggg agggggaaag tct 1723

159 <210> SEQ ID NO 4

160 <211> LENGTH: 559

161 <212> TYPE: PRT

162 <213> ORGANISM: Escherichia coli

163 <400> SEQUENCE: 4

164	Met Pro Ile Gly Asn Leu Gly His Asn Pro Asn Val Asn Asn Ser Ile
165	1 5 10 15
166	Pro Pro Ala Pro Pro Leu Pro Ser Gln Thr Asp Gly Ala Gly Arg
167	20 25 30
168	Gly Gln Leu Ile Asn Ser Thr Gly Pro Leu Gly Ser Arg Ala Leu Phe
169	35 40 45
170	Thr Pro Val Arg Asn Ser Met Ala Asp Ser Gly Asp Asn Arg Ala Ser
171	50 55 60
172	Asp Val Pro Gly Leu Pro Val Asn Pro Met Arg Leu Ala Ala Ser Glu
173	65 70 75 80
174	Ile Thr Leu Asn Asp Gly Phe Glu Val Leu His Asp His Gly Pro Leu
175	85 90 95
176	Asp Thr Leu Asn Arg Gln Ile Gly Ser Ser Val Phe Arg Val Glu Thr
177	100 105 110
178	Gln Glu Asp Gly Lys His Ile Ala Val Gly Gln Arg Asn Gly Val Glu
179	115 120 125
180	Thr Ser Val Val Leu Ser Asp Gln Glu Tyr Ala Arg Leu Gln Ser Ile
181	130 135 140
182	Asp Pro Glu Gly Lys Asp Lys Phe Val Phe Thr Gly Gly Arg Gly
183	145 150 155 160
184	Ala Gly His Ala Met Val Thr Val Ala Ser Asp Ile Thr Glu Ala Arg
185	165 170 175
186	Gln Arg Ile Leu Glu Leu Leu Glu Pro Lys Gly Thr Gly Glu Ser Lys
187	180 185 190
188	Gly Ala Gly Glu Ser Lys Gly Val Gly Glu Leu Arg Glu Ser Asn Ser
189	195 200 205
190	Gly Ala Glu Asn Thr Thr Glu Thr Gln Thr Ser Thr Ser Ser
191	210 215 220
192	Leu Arg Ser Asp Pro Lys Leu Trp Leu Ala Leu Gly Thr Val Ala Thr
193	225 230 235 240
194	Gly Leu Ile Gly Leu Ala Ala Thr Gly Ile Val Gln Ala Leu Ala Leu

PAGE: 5

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/189,415DATE: 03/10/2000
TIME: 15:42:36

Input Set: I189415.RAW

195 245 250 255
 196 Thr Pro Glu Pro Asp Ser Pro Thr Thr Asp Pro Asp Ala Ala Ala
 197 260 265 270
 198 Ser Ala Thr Glu Thr Ala Thr Arg Asp Gln Leu Thr Lys Glu Ala Phe
 199 275 280 285
 200 Gln Asn Pro Asp Asn Gln Lys Val Asn Ile Asp Glu Leu Gly Asn Ala
 201 290 295 300
 202 Ile Pro Ser Gly Val Leu Lys Asp Asp Val Val Ala Asn Ile Glu Glu
 203 305 310 315 320
 204 Gln Ala Lys Ala Ala Gly Glu Ala Lys Gln Gln Ala Ile Glu Asn
 205 325 330 335
 206 Asn Ala Gln Ala Gln Lys Lys Tyr Asp Glu Gln Gln Ala Lys Arg Gln
 207 340 345 350
 208 Glu Glu Leu Lys Val Ser Ser Gly Ala Gly Tyr Gly Leu Ser Gly Ala
 209 355 360 365
 210 Leu Ile Leu Gly Gly Ile Gly Val Ala Val Thr Ala Ala Leu His
 211 370 375 380
 212 Arg Lys Asn Gln Pro Val Glu Gln Thr Thr Thr Thr Thr Thr Thr
 213 385 390 395 400
 214 Thr Thr Thr Ser Ala Arg Thr Val Glu Asn Lys Pro Ala Asn Asn Thr
 215 405 410 415
 216 Pro Ala Gln Gly Asn Val Asp Thr Pro Gly Ser Glu Asp Thr Met Glu
 217 420 425 430
 218 Ser Arg Arg Ser Ser Met Ala Ser Thr Ser Ser Thr Phe Phe Asp Thr
 219 435 440 445
 220 Ser Ser Ile Gly Gly Pro Cys Arg Ile Arg Met Leu Met Leu Lys His
 221 450 455 460
 222 Arg Cys Met Ile Arg Arg Cys Arg Leu Leu Ile Leu Ile Arg Leu Phe
 223 465 470 475 480
 224 Arg Ile Trp Gly Ile Gln Ile Ser Val Val Tyr Ser Thr Ile Gln His
 225 485 490 495
 226 Pro Pro Arg Asp Thr Thr Asp Asn Gly Ala Arg Leu Leu Gly Asn Pro
 227 500 505 510
 228 Ser Ala Gly Ile Gln Ser Thr Tyr Ala Arg Leu Ala Leu Ser Gly Gly
 229 515 520 525
 230 Leu Arg His Asp Met Gly Gly Leu Thr Gly Gly Ser Asn Ser Ala Val
 231 530 535 540
 232 Asn Thr Ser Asn Asn Pro Pro Ala Pro Gly Ser His Arg Phe Val
 233 545 550 555
 234 <210> SEQ ID NO 5
 235 <211> LENGTH: 1460
 236 <212> TYPE: DNA
 237 <213> ORGANISM: Escherichia coli
 238 <400> SEQUENCE: 5
 aattctgttg ctgatgctgc tgattctcggt gccagtgata ttccggact tcctacaaat 60
 ccactgcgct ttgctgcgtc cgaggtatct ttgcattgggt cgcttgaagt tcttcatgtat 120
 aaaggggggc ttgatactct taactctgtc attggatctt cgttattccg tggttggaaact 180
 cgggatgtatg gcagccatgt tgctatcggtt caaaaaaaaatg gcctcgagac cactgttgg 240
 ttaagtgagc aagagttttc tagcttacag tcccttgcgtc ctgaaggtaa aaacaaattt 300
 gtatctgtt gaggcccgagg catgctatgg tcacggttgc ttcagatatc 360

PAGE: 6

**VERIFICATION SUMMARY
PATENT APPLICATION US/09/189,415**

DATE: 03/10/2000

TIME: 15:42:36

Input Set: I189415.RAW

Line ? Error/Warning

Original Text

93 W "N" or "Xaa" used: Feature required

Gly Asn Ala Ile Pro Ser Gly Glu Leu Xaa A